

NASA TECH BRIEF

NASA Pasadena Office



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FORTRAN Manpower Account Program

The problem:

To determine the manpower use and cost for a group of mathematics analysts who work on a variety of tasks for a variety of different projects, people, and sections. The mathematics analysts are grouped into full time company employees, part time company employees, and contractor personnel.

The solution:

A computer program was developed to handle the above problem.

How it's done:

This program provides the user with several different tables on which he can base his manpower use cost. The information given by these tables:

1. provides summaries for weekly and monthly activity reports;
2. keeps track of the expenditure of contractor hours and dollars with estimates of depletion so that procurement can be initiated in sufficient time to avoid interruption in contractor services;
3. prepares summaries of which charge numbers are being used and at what rate; and
4. provides data which can be presented to management for annual reviews or when there is some question about a particular phase of the employees use.

Some of the tables are very detailed and some are merely summaries suitable for reports. The program recognizes several different breakdowns of personnel types and task categories and prepares separate tables for each of them. There are twelve different tables given in the output.

1. Personnel tasks and hours;
2. Current tasks;
3. Detailed activity report;
4. Summary of hours by section and task category;
5. Summary of hours by task duration and task type;
6. Summary of hours by type of people;
7. Contractor hours expended;
8. Contractor dollars expended;
9. Tasks completed;
10. Summary of hours by project;
11. Summary of hours by charge number; and
12. Missing task cards.

Notes:

1. The program listing and the documentation is offered as one complete package due to the way the documentation is written.
2. This program is written in FORTRAN IV to be utilized on the IBM-360/65 computer or any other computer that has a compatible FORTRAN IV compiler.
3. Inquiries concerning this program should be directed to:

COSMIC
112 Barrow Hall
University of Georgia
Athens, Georgia 30601
Reference: NPO-11973

Source: John N. Strand of
Caltech/JPL
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